

Figure 1



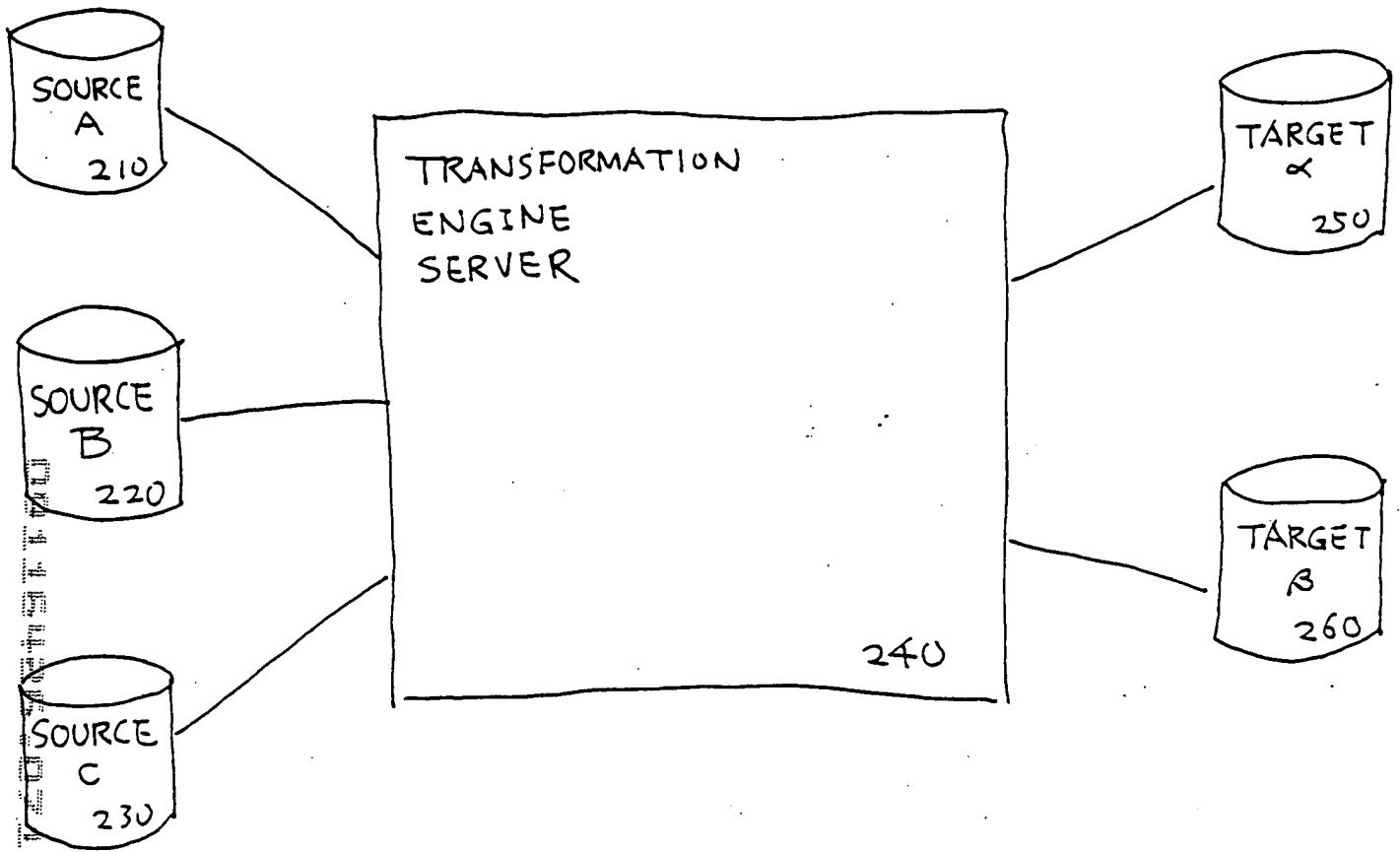
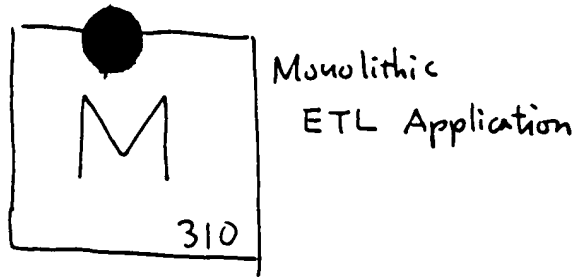
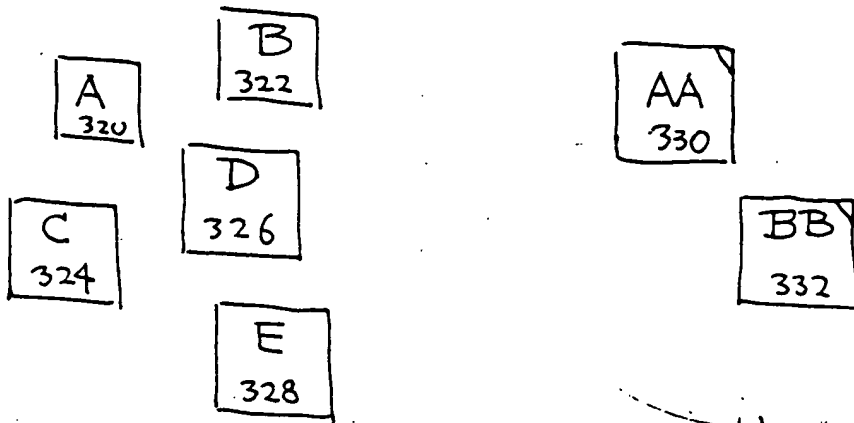


Figure 2

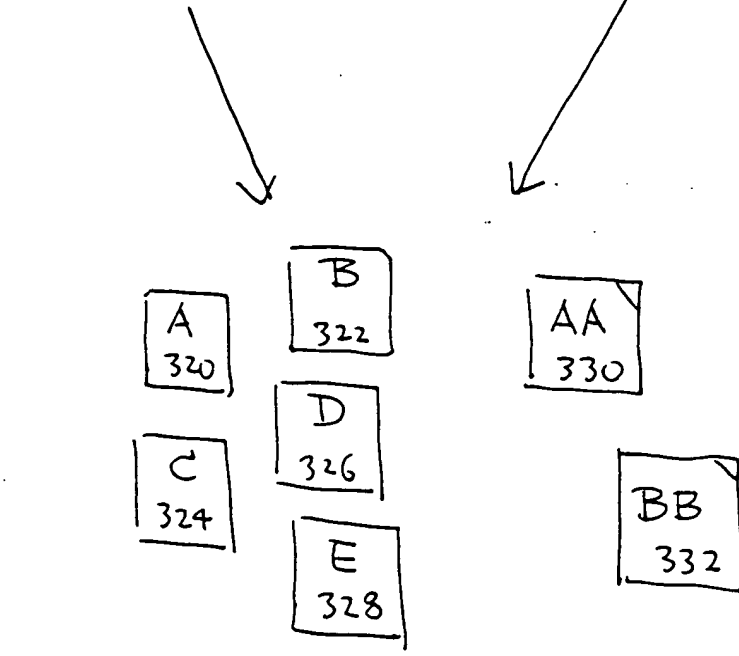
Figure 3A



Step 315



User-Developed Transformation Components

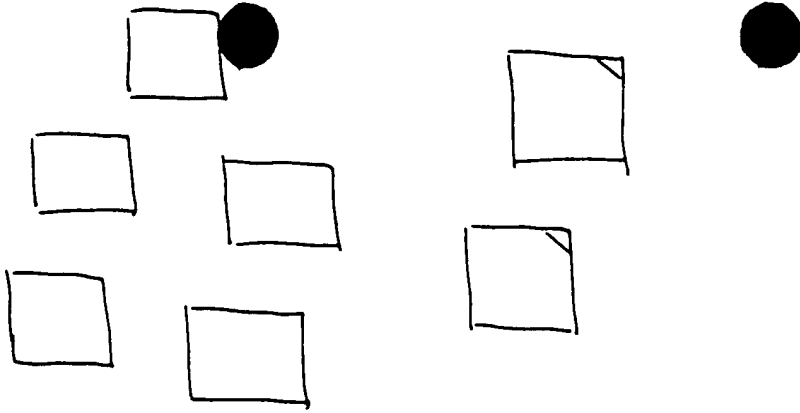


Extensible Set of Transformation Components

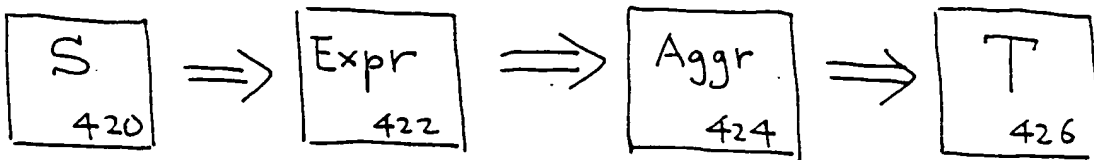
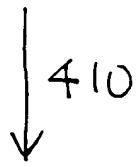
Figure 3B

Figure 3C

EXTENSIBLE SET OF TRANSFORMATION COMPONENTS

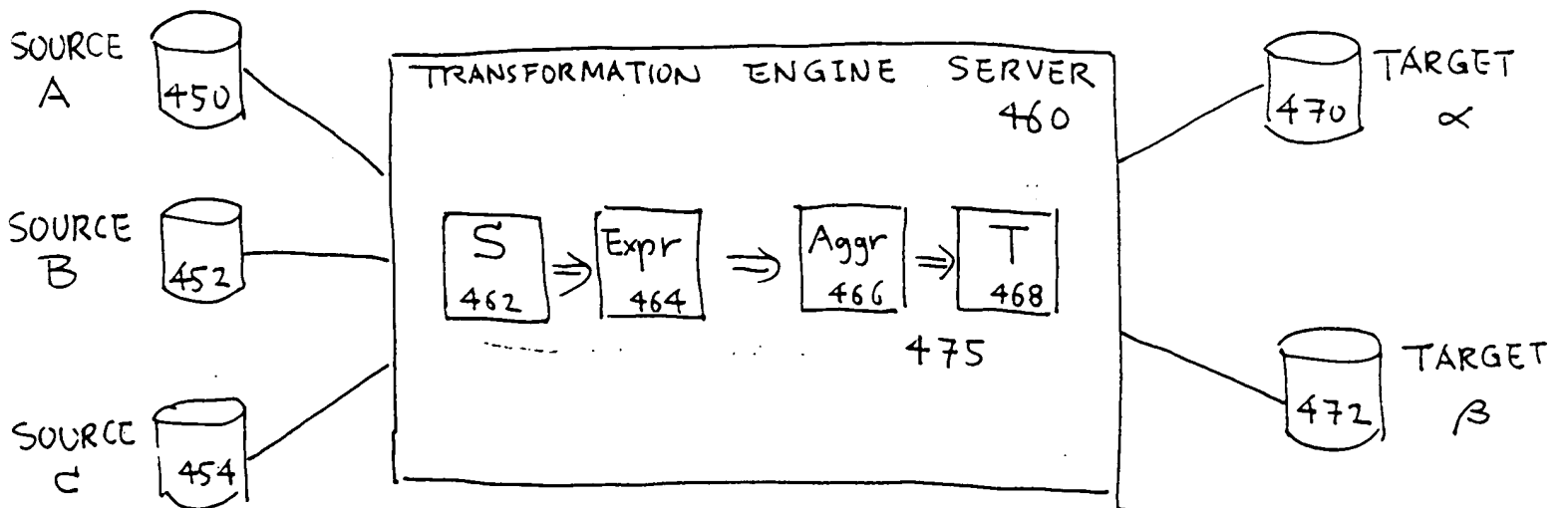


400



PIPELINE

440



480

Figure 4

HUMAN INSIGHT

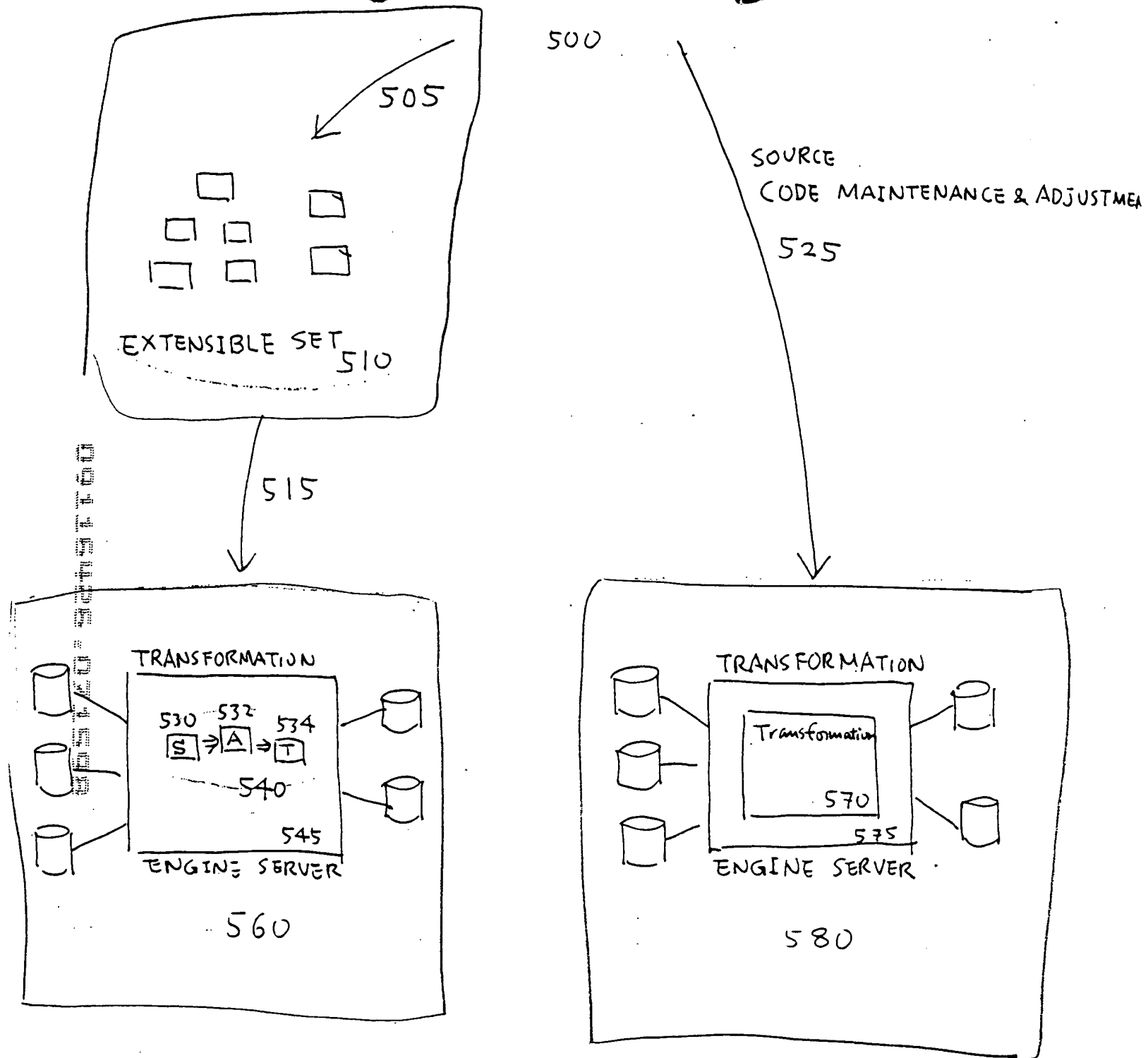
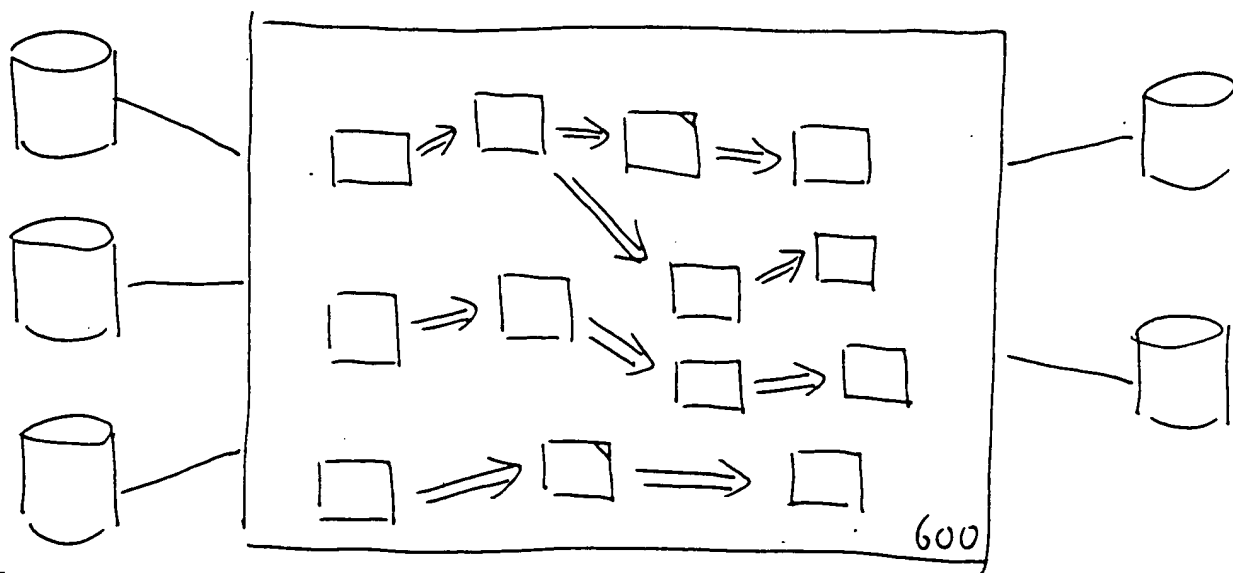


Figure 5

603 604 605 606



605

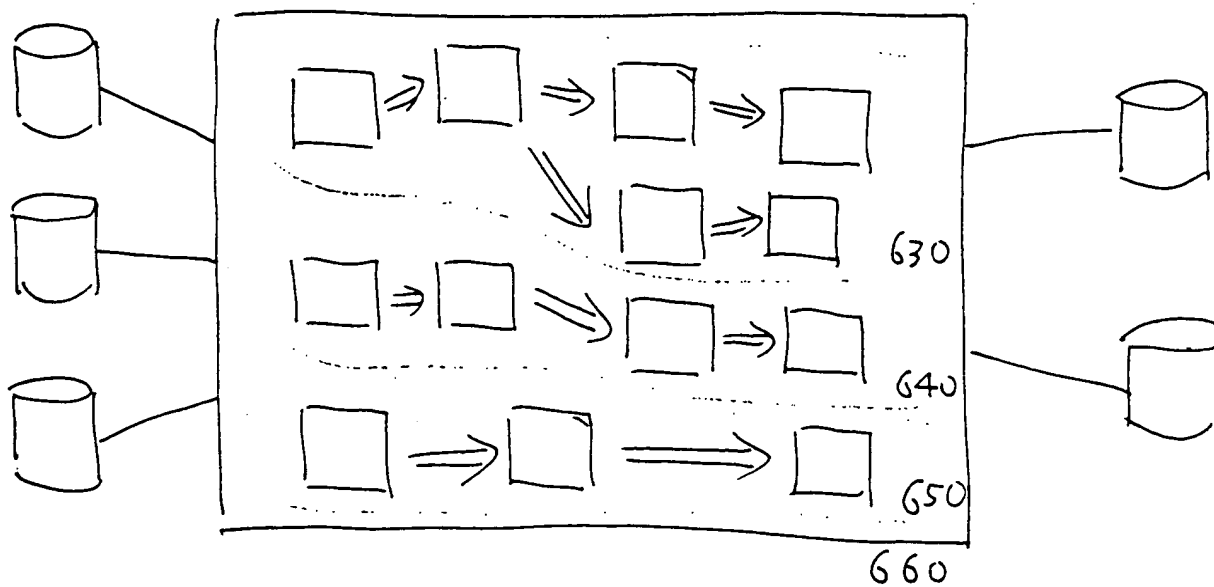


Figure 6

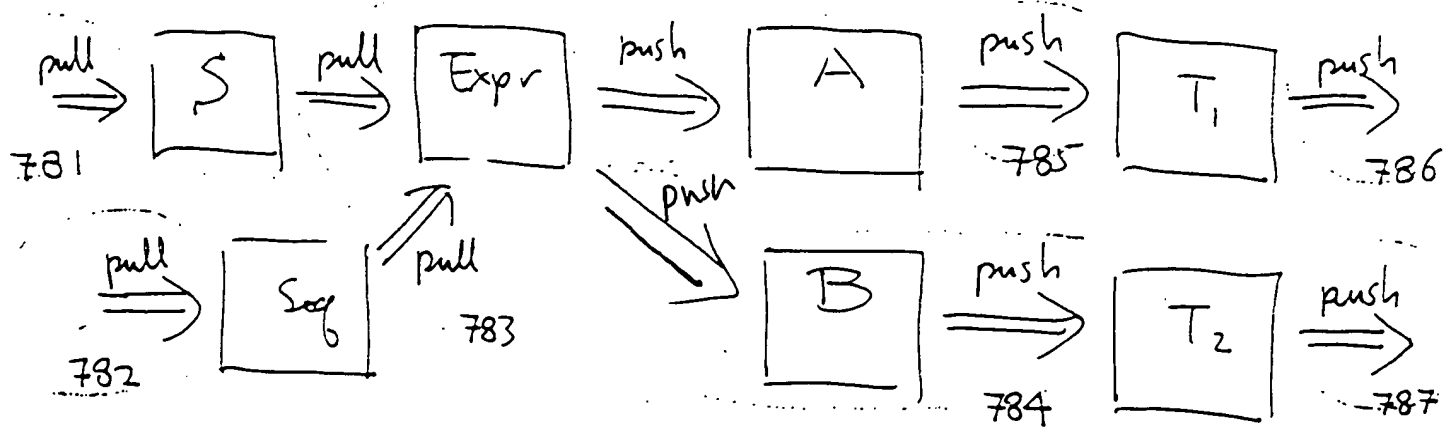
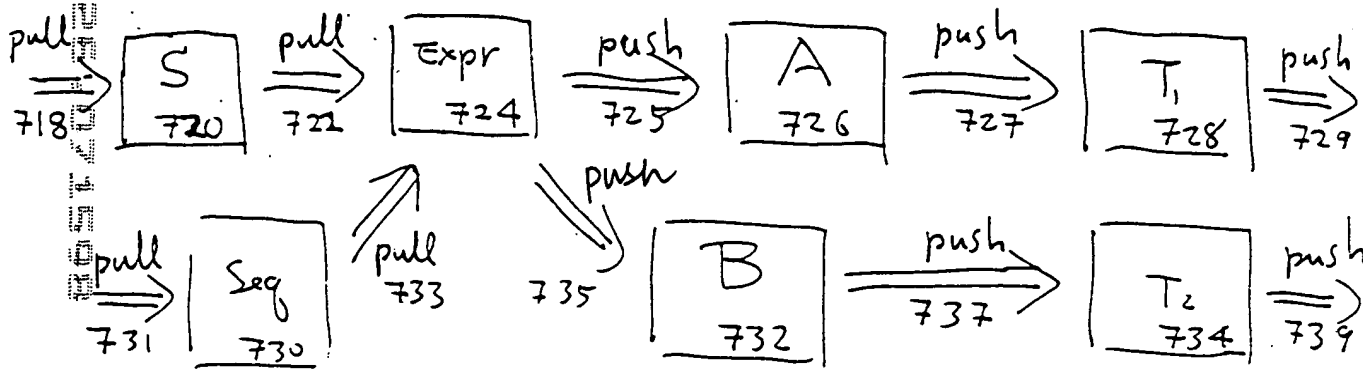
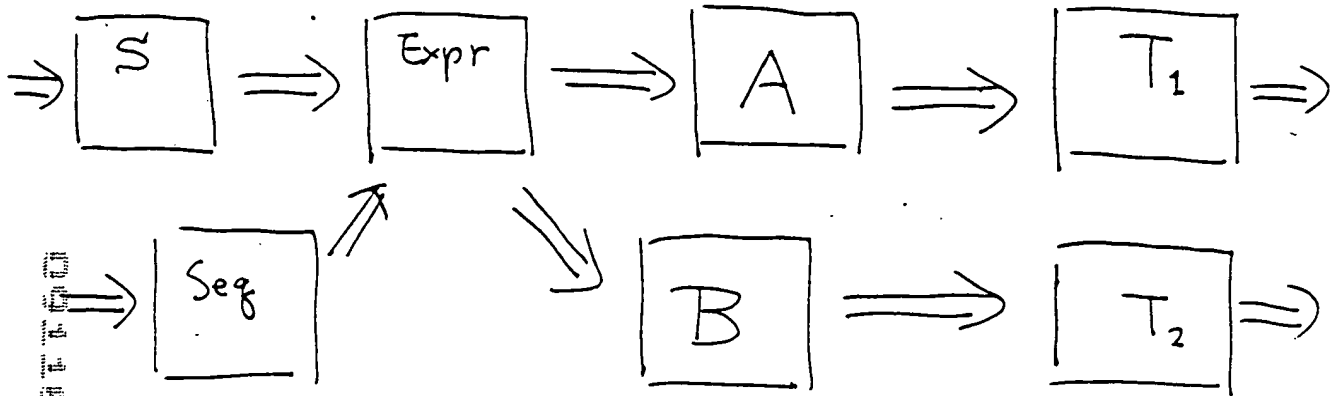
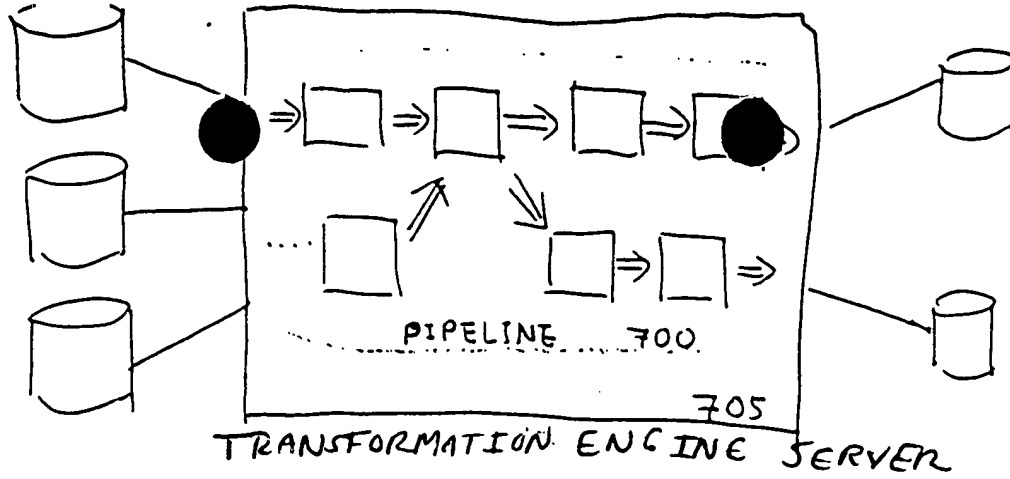


Figure 7

Manually choose the transformation components necessary to accomplish the data ETL process

800

Manually arrange these transformation components sequentially to form a pipeline or pipelines

805

The server automatically identifies the individual pipeline(s). This is the gross level of independent task(s) to be executed in parallel.

810

For each pipeline, the server further establishes the mode of active data movement for each transformation component G within the pipeline according to the nature/functions of the transformation desired

820

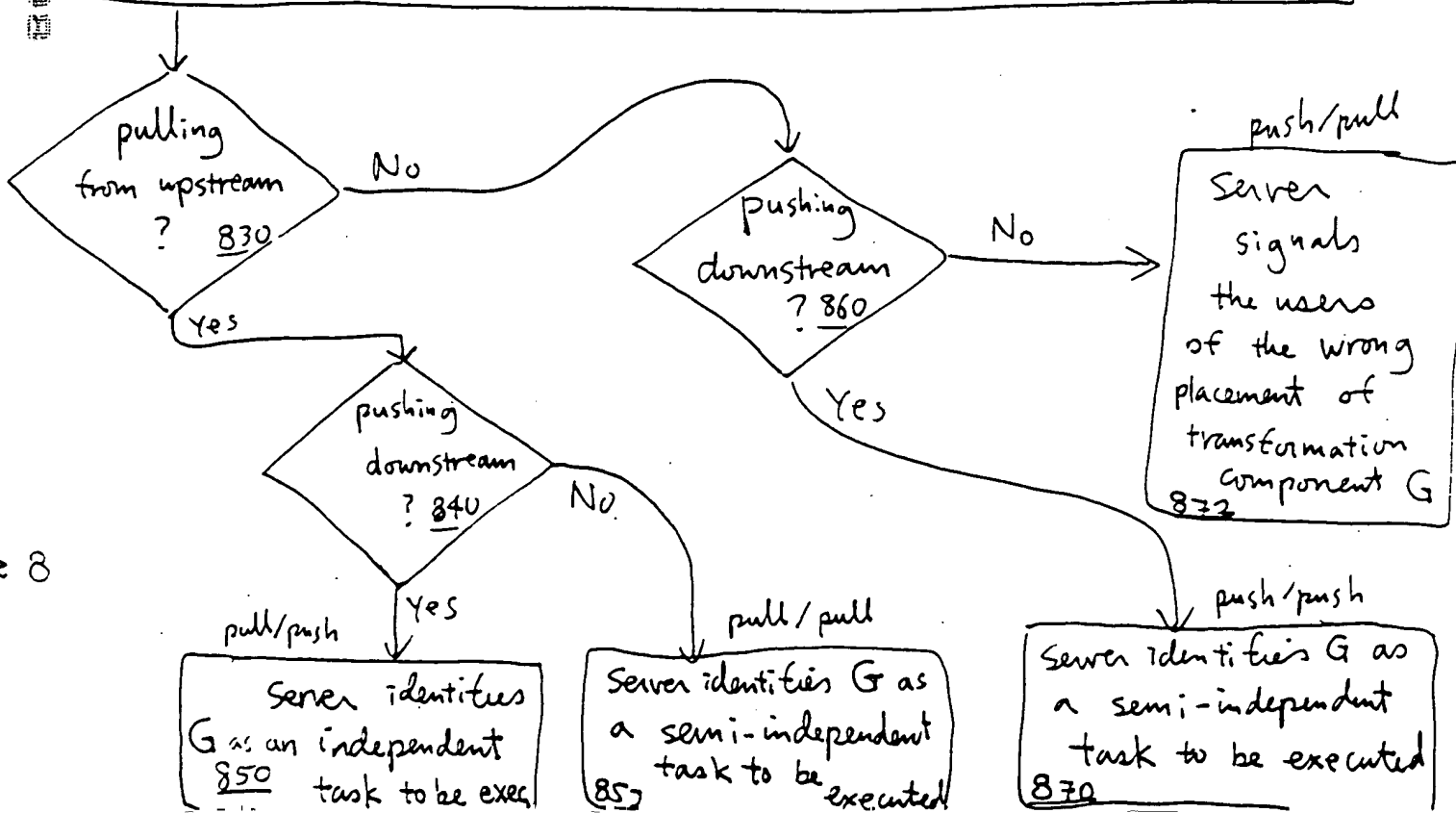


Figure 8

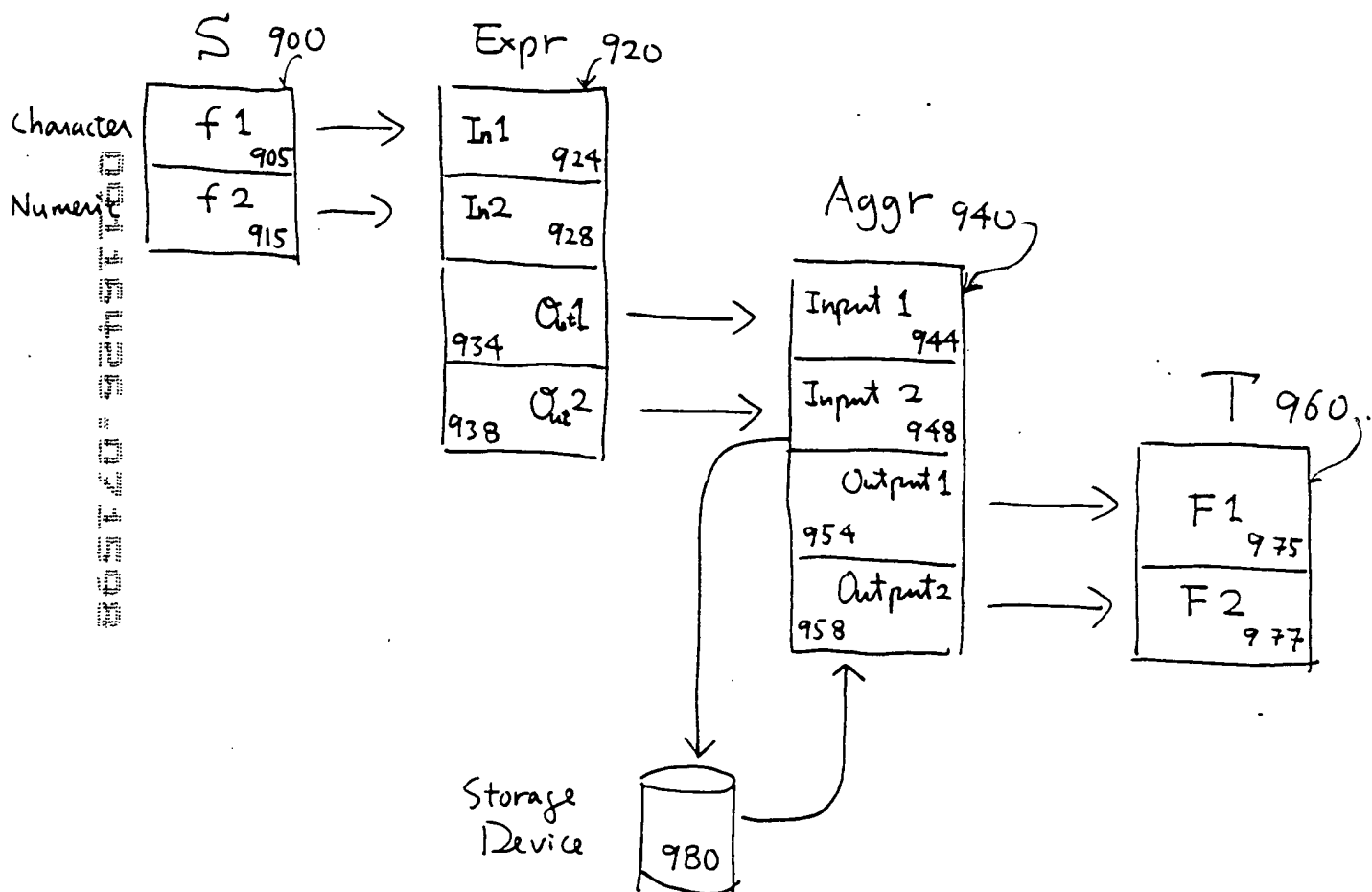
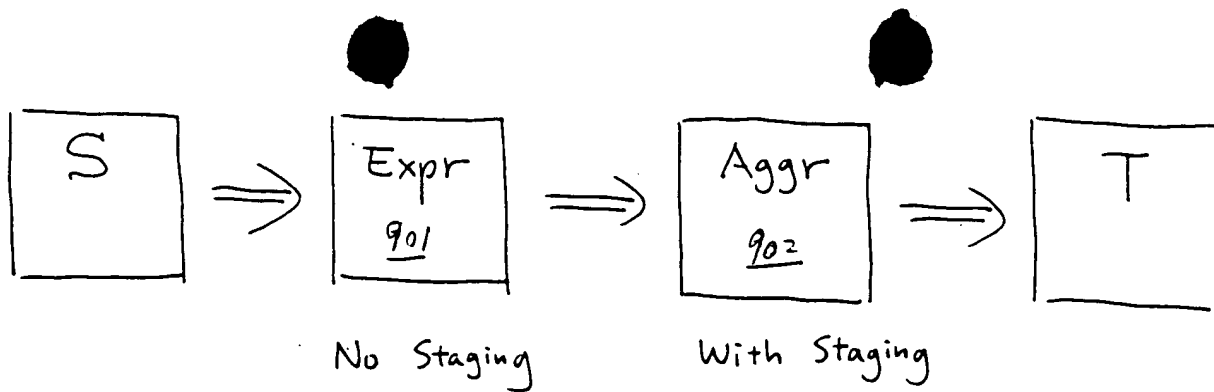


Figure 9